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- (71) Applicant (for all designated States except US): CAMFIL AB [SE/SE]; Industrigatan 3, S-61933 TROSA (SE).
- (72) Inventor; and
(75) Inventor/Applicant (for US only): FORSLUND, Mikael [SE/SE]; Bräcke­gatan 2, S-162 61 VÄLLINGBY (SE).
- (74) Agents: ALBIHNS STOCKHOLM AB et al.; Box 5581, S-114 85 STOCKHOLM (SE).
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(54) Title: FILTER STRUCTURE, FILTER PANEL COMPRISING THE FILTER STRUCTURE AND METHOD FOR MANUFACTURING THE FILTER STRUCTURE.

(57) Abstract: Abstract A pleatable filter structure for use in a filter panel, containing ion exchange particles distributed within a fibrous framework, is expanded so as to contain enough space to allow the ion exchange particles to swell or to be in a swelled state as compared to dry ion exchange particles, without additional expansion of the filter structure. A filter panel comprises the filter structure fixed into a filter panel frame. A method of manufacturing the filter structure involves subjecting filter structure to a moisture treatment in which it is exposed to a humid or water containing environment, whereby the ion exchange particles swell and Abstract A pleatable filter structure for use in a filter panel, containing ion exchange particles distributed within a fibrous framework, is expanded so as to contain enough space to allow the ion exchange particles to swell or to be in a swelled state as compared to dry ion exchange particles, without additional expansion of the filter structure. A filter panel comprises the filter structure fixed into a filter panel frame. A method of manufacturing the filter structure involves subjecting filter structure to a moisture treatment in which it is exposed to a humid or water containing environment, whereby the ion exchange particles swell and cause a permanent expansion of the filter structure.